



SEQUENCE LISTING

<110> SPURLOCK, MICHAEL E.

<120> BOVINE LEPTIN PROTEIN, ANTISENSE AND ANTIBODY

<130> PM-8808-A

<140> 09/928,522

<141> 2001-08-13

<150> 08/688,908

<151> 1996-07-31

<160> 9

<170> PatentIn Ver. 2.1

<210> 1

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 1

ggatccggtc tcaggccgtg ccyatccara aagtcc

36

<210> 2

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

<400> 2

gaattcagcg ctgcayycag ggctrasrtc

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<210> 3

<211> 449

<212> DNA

<213> Bovine sp.

<220>

<221> CDS

<222> (6) .. (443)

<400> 3

aggcc gtg cct atc cag aaa gtc cag gat gac acc aaa acc ctc atc aag 50
Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile Lys

1

5

10

15

aca att gtc acc agg atc aat gac atc tca cac acg cag tcc gtc tcc	98
Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr Gln Ser Val Ser	
20 25 30	
tcc aaa cag agg gtc act ggt ttg gac ttc atc cct ggg ctc cac cct	146
Ser Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro Gly Leu His Pro	
35 40 45	
ctc ctg agt ttg tcc aag atg gac cag aca ttg gcg atc tac caa cag	194
Leu Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala Ile Tyr Gln Gln	
50 55 60	
atc ctc acc agt ctg cct tcc aga aat gtg gtc caa ata tcc aat gac	242
Ile Leu Thr Ser Leu Pro Ser Arg Asn Val Val Gln Ile Ser Asn Asp	
65 70 75	
ctg gag aac ctc cgg gac ctt ctc cac ctg ctg gcc gcc tcc aag agc	290
Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala Ala Ser Lys Ser	
80 85 90 95	
tgc ccc ttg ccg cag gtc agg gcc ctg gag agc ttg gag agc ttg ggt	338
Cys Pro Leu Pro Gln Val Arg Ala Leu Glu Ser Leu Glu Ser Leu Gly	
100 105 110	
gtc gtc ctg gaa gcc tcc ctc tac tcc acc gag gtg gtg gcc ctg agc	386
Val Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val Val Ala Leu Ser	
115 120 125	
cgg ctg cag ggg tca cta cag gac atg ttg cgg cag ctg gac ctc agc	434
Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Arg Gln Leu Asp Leu Ser	
130 135 140	
cct gaa tgc agcgct	449
Pro Glu Cys	
145	

<210> 4
 <211> 146
 <212> PRT
 <213> Bovine sp.

<400> 4	
Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile Lys Thr	
1 5 10 15	
Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr Gln Ser Val Ser Ser	
20 25 30	
Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro Gly Leu His Pro Leu	
35 40 45	
Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala Ile Tyr Gln Gln Ile	
50 55 60	
Leu Thr Ser Leu Pro Ser Arg Asn Val Val Gln Ile Ser Asn Asp Leu	
65 70 75 80	

Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala Ala Ser Lys Ser Cys
85 90 95

Pro Leu Pro Gln Val Arg Ala Leu Glu Ser Leu Glu Ser Leu Gly Val
100 105 110

Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val Val Ala Leu Ser Arg
115 120 125

Leu Gln Gly Ser Leu Gln Asp Met Leu Arg Gln Leu Asp Leu Ser Pro
130 135 140

Glu Cys
145

<210> 5
<211> 445
<212> DNA
<213> Homo sapiens

<400> 5
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ccaggatcaa tgacatttca cacacgcagt cagtctcctc caaacagaaa gtcaccgggt 120
tggacttcat tcttgggctc caccocatcc tgaccttatt caagatggac cagacactgg 180
cagtctacca acagatcctc accagtatgc cttccagaaa cgtgatccaa atatccaacg 240
acctggagaa cctccgggat cttcttcacg tgttggcctt ctctaagagc tgccacttgc 300
cctgggccag tggcctggag accttggaca gcctgggggg tgtcctggaa gcttcagggt 360
actccacaga ggtgggtggc ctgagcaggg tgcaggggtc tctgcaggac atgctgtggc 420
agctggacct cagccctggg tgctg 445

<210> 6
<211> 86
<212> DNA
<213> Murine sp.

<400> 6
aagcagtgcc tatccagaaa gtccaggatg acaccaaaaac cctcatcaag accattgtca 60
ccaggatcaa tgacatttca cacacg 86

<210> 7
<211> 167
<212> PRT
<213> Homo sapiens

<400> 7
Met His Trp Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr Leu
1 5 10 15

Phe Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
20 25 30

Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
35 40 45

Gln Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro
 50 55 60
 Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr Leu Ala
 65 70 75 80
 Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val Ile Gln
 85 90 95
 Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala
 100 105 110
 Phe Ser Lys Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu Thr Leu
 115 120 125
 Asp Ser Leu Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val
 130 135 140
 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Trp Gln
 145 150 155 160
 Leu Asp Leu Ser Pro Gly Cys
 165

<210> 8
 <211> 167
 <212> PRT
 <213> Murine sp.

<400> 8
 Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr Leu
 1 5 10 15
 Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
 20 25 30
 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
 35 40 45
 Gln Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro
 50 55 60
 Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala
 65 70 75 80
 Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu Gln
 85 90 95
 Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala
 100 105 110
 Phe Ser Lys Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro
 115 120 125
 Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val
 130 135 140

Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln
 145 150 155 160

Leu Asp Val Ser Pro Glu Cys
 165

<210> 9
 <211> 359
 <212> DNA
 <213> Murine sp.

<400> 9
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 attctgagtt tgtccaagat ggaccagact ctggcagtct atcaacaggt cctcaccagc 120
 ctgccttccc aaaatgtgct gcagatagcc aatgacctgg agaattctccg agacctctc 180
 catctgctgg ctttctccaa gagctgctcc ctgcctcaga ccagtggcct gcagaagcca 240
 gagagcctgg atggcgctct ggaagcctca ctctactcca cagagggtgg ggctttgagc 300
 aggctgcagg gctctctgca ggacattctt caacagttgg atgttagccc tgaatgctg 359